

# MATERIAL SAFETY DATA SHEET

JUL 12 1982

## FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20)

DATE OF PREP.

JULY 1982

### Section I

MANUFACTURER'S NAME BOSTIK WEST, DIVISION OF EMHART CORPORATION

STREET ADDRESS 20846 S. NORMANDIE AVE. CITY, STATE, AND ZIP CODE TORRANCE, CA. 90502

EMERGENCY TELEPHONE NO. (213) 320-6800

PRODUCT CLASS EPOXY COATING

(DMS 1738D, 595a-17875)

TRADE NAME BOSTIK

MANUFACTURERS CODE IDENTIFICATION 443-1-500 TRS

CURING SOLUTION: CA-133

MIX RATIO: 100 PARTS 443-1-500 (BASE) TO  
33 PARTS CA-133 BY WEIGHT.

### Section II - HAZARDOUS INGREDIENTS

INGREDIENT 443-1-500 TRS (BASE)	CAS NO.	PERCENT (Wt.)	TLV		LEL	VAPOR PRESSURE
			PPM	mg/M <sup>3</sup>		
BUTYL ALCOHOL	71-36-3	1.0	100		1.7	4
BUTYL CELLOSOLVE	111-76-2	1-5	50		1.1	1
METHYL ETHYL KETONE	78-93-3	20-25	200		1.8	70
NORMAL BUTYL ACETATE	123-86-4	5-10	150		1.7	8
TOLUENE	108-88-3	5-10	200		1.2	22
XYLENE	1330-20-7	1-5	100		1.0	7

### Section III - PHYSICAL DATA

BOILING RANGE 176° - 340°F

VAPOR DENSITY ☒ HEAVIER ☐ LIGHTER THAN AIREVAPORATION RATE ☐ FASTER ☒ SLOWER THAN ETHER

PERCENT VOLATILE BY VOLUME 61%

WEIGHT PER GALLON 10LBS.

### Section IV - FIRE AND EXPLOSION HAZARD DATA

DOT CATEGORY RED LABEL, FLAMMABLE

(MIN.) FLASH POINT 23°F, TAG CLOSED CUP LEL 1.0

EXTINGUISHING MEDIA

Exclude air-Use foam, CO<sub>2</sub>, steam, water fog, dry chemicals. Do not use water.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapor forms explosive mixture with air between upper and lower explosion limits.

SPECIAL FIRE FIGHTING PROCEDURES

Do not use water, exclude air, use water spray to cool fire exposed surfaces and to protect personnel.

## Section V — HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE See Section II

EFFECTS OF OVEREXPOSURE Headache, nausea, dizziness. Breathing vapor will be irritating to nose, throat and eyes.

EMERGENCY AND FIRST AID PROCEDURES: Skin Exposure: Wash affected area with soap and water.  
Exposure: Flush with water for at least 15 minutes, consult physician.  
Ingestion: Consult physician immediately.  
Inhalation: Remove victim to fresh air, consult physician.

## Section VI — REACTIVITY DATA

STABILITY ☐ UNSTABLE ☒ STABLE

CONDITIONS TO AVOID :Storage at high temperatures.

INCOMPATIBILITY (Materials to avoid) Strong oxidizing agents, Inorganic acids Sparks & Open Flame

HAZARDOUS DECOMPOSITION PRODUCTS

On combustion CO, CO<sub>2</sub>, Oxides of nitrogen.

HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR

CONDITIONS TO AVOID None

## Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Eliminate sources of ignition and clear fumes from area. Prevent liquid from entering sewers, water sources, or low areas. Keep unnecessary personnel away. Shut off source, if possible to do so without hazard. Contain spilled liquid with sawdust or oil absorbing compound. Wash area with detergent & water. Consult disposal expert and ensure conformity with local regulations.

## Section VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION Use approved respiratory protection such as an air-supplied mask if used in non ventilated area.  
Mechanical: Explosion-proof ventilation equipment. No smoking or open lights.

VENTILATION Face velocity > 60 fpm in confined area.

PROTECTIVE GLOVES :Chemically resistant gloves.


EYE PROTECTION : Chemical splash goggles or face shield.

OTHER PROTECTIVE EQUIPMENT : Eye bath & safety shower.

## Section IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Material is sensitive to moisture & should be kept in tightly closed containers. Do not handle or store near flame, heat or strong oxidants. Adequate ventilation required. Containers of this product may be hazardous when emptied these containers retain product residues (vapor, liquid, etc).

All handling equipment should be electrically grounded. Treat as a very flammable liquid.

  
Kenneth S. Silberberg  
Technical Administrative Manager

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## Section I

MANUFACTURER'S NAME BOSTIK WEST, DIVISION OF EMHART CORPORATION

STREET ADDRESS 20846 S. NORMANDIE AVE. CITY, STATE AND ZIP CODE TORRANCE, CA. 90502

EMERGENCY TELEPHONE NO. (213) 320-6800

PRODUCT CLASS AMINE CURING SOLUTION

MANUFACTURERS CODE IDENTIFICATION CA-133

(DMS 1738-17875)

CURING SOLUTION FOR 443-4-500 TRS

TRADE NAME BOSTIK

## Section II — HAZARDOUS INGREDIENTS

INGREDIENT CA-133 (*EPOXY CURING SOLUTION)	CAS NO.	PERCENT (Wt.)	TLV		LEL	VAPOR PRESSURE
			PPM	mg/M <sup>3</sup>		
BUTYL CELLOSOLVE	111-76-2	10-15	50		1.1	1
METHYL ETHYL KETONE	78-93-3	25-30	200		1.8	70
NORMAL BUTYL ALCOHOL	71-36-3	20-25	100		1.7	4
NORMAL BUTYL ACETATE	123-8-4	20-25	150		1.7	8
TOLUENE	108-88-3	1-5	200		1.2	22
*CA-133 MAY ALSO CONTAIN A MINOR AMOUNT OF DIETHYLENE TRIAMINE (DETA)	111-40-0	—	**1.0		1.4	<1.0
**ACGIH, 8HOURS TWA						

## Section III — PHYSICAL DATA

BOILING RANGE 176° - 340°F

VAPOR DENSITY ☒ HEAVIER ☐ LIGHTER THAN AIR

EVAPORATION RATE ☐ FASTER ☒ SLOWER THAN ETHER.

PERCENT VOLATILE  
BY VOLUME 62%

WEIGHT PER  
GALLON 7.2LBS.

## Section IV — FIRE AND EXPLOSION HAZARD DATA

DOT CATEGORY RED LABEL, FLAMMABLE

(MEN)  
FLASH POINT 23°F, TAG CLOSED CUP LEL 1.1

EXTINGUISHING MEDIA

Exclude air-Use foam, CO<sub>2</sub>, steam, water fog,  
dry chemicals. Do not use water.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapor forms explosive mixture with air between  
upper and lower explosion limits.

SPECIAL FIRE FIGHTING PROCEDURES

Do not use water, exclude air, use water spray  
to cool fire exposed surfaces and to protect  
personnel.

## Section V — HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE See Section II

EFFECTS OF OVEREXPOSURE Headache, nausea, dizziness. Breathing vapor will be irritating to nose, throat, and eyes.

EMERGENCY AND FIRST AID PROCEDURES : Skin Exposure: Wash affected area with soap and water. Eye Exposure: Flush with water for at least 15 minutes, consult physician. Ingestion: Consult physician immediately. Inhalation: Remove victim to fresh air, consult physician.

## Section VI — REACTIVITY DATA

STABILITY ☐ UNSTABLE ☒ STABLE CONDITIONS TO AVOID Storage at high temperatures.

INCOMPATIBILITY (Materials to avoid) Strong oxidizing agents. Sparks & open flame.

HAZARDOUS DECOMPOSITION PRODUCTS

On combustion CO, CO<sub>2</sub>, Aldehydes and other organics, oxides of nitrogen.

HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR

CONDITIONS TO AVOID

## Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate sources of ignition and clear fumes from area. Prevent liquid from entering sewers, water sources, or low areas. Keep unnecessary personnel away. Shut off source, if possible to do so without hazard. Contain spilled liquid with sawdust, sand or oil absorbing compound. Wash area with detergent & water. Consult disposal expert and ensure conformity with local regulations.

## Section VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Use approved respiratory protection such as an air-supplied mask if used in non ventilated area.

Mechanical: Explosion-proof ventilation equipment. No smoking or open lights.

VENTILATION : Face velocity > 60fpm in confined area.

PROTECTIVE GLOVES Chemically resistant gloves.

EYE PROTECTION Chemical splash goggles or face shield.


OTHER PROTECTIVE EQUIPMENT Eye bath & Safety shower.

## Section IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING : Keep containers closed when not in use. Do Not handle or store near flame, heat or strong oxidants. Adequate ventilation required. Containers of this product may be hazardous when emptied -these

OTHER PRECAUTIONS containers retain product residues (vapor, liquid, etc.).

All handling equipment should be electrically grounded. Treat as a very flammable liquid.

  
Kenneth J. Silberberg  
Technical Administrative Manager